

AMENDMENTS TO THE CLAIMS:

Please amend Claims 1, 24, 43, and 53 through 57 to read as follows:

1. (Currently Amended) ~~A~~ An apparatus comprising:

a selective spoofing unit that (a) determines what application is using a transport level connection ~~to said apparatus~~ and (b) decides whether or not to perform transport level spoofing on the transport level connection ~~to said apparatus~~ in accordance with the determination of what application is using the transport level connection ~~to said apparatus~~,

wherein the transport level spoofing comprises sending a transport level ACK to spoof receipt of data, and

wherein at least one of the following conditions is satisfied:

(1) in ~~the~~ a case that said selective spoofing unit has decided to perform transport level spoofing on the transport level connection, ~~to said apparatus, maximum segment size~~ a TCP Option, TCP Maximum Segment Size, is set in accordance with the determination of what application is using the transport level connection ~~to said apparatus~~;

(2) in ~~the~~ a case that said selective spoofing unit has decided to perform transport level spoofing on the transport level connection, ~~to said apparatus~~, a three-way handshake parameter is set in accordance with the determination of what application is using the transport level connection ~~to said apparatus~~; and

(3) in ~~the~~ a case that said selective spoofing unit has decided to perform transport level spoofing on the transport level connection, ~~to said apparatus~~, connection

priority is set in accordance with the determination of what application is using the transport level connection, ~~to said apparatus.~~

2. (Previously Presented) The apparatus of claim 1, wherein said selective spoofing unit only spoofs connections associated with high throughput applications.

3. (Previously Presented) The apparatus of claim 1, wherein said selective spoofing unit assigns spoofing resources, including buffer space and control blocks, to the spoofed transport level connection.

4. (Previously Presented) The apparatus of claim 1, wherein said selective spoofing unit determines what application is using the transport level connection in accordance with a TCP port number.

5. (Cancelled)

6. (Cancelled)

7. (Cancelled)

8. (Cancelled)

9. (Cancelled)

10. (Cancelled)

11. (Cancelled)

12. (Cancelled)

13. (Previously Presented) The apparatus of claim 1, wherein the transport level connection uses one of the Transmission Control Protocol (TCP) and the User Datagram Protocol (UDP).

14. (Previously Presented) The apparatus of claim 1, wherein said apparatus is connected to another apparatus via a backbone connection.

15. (Original) The apparatus of claim 14, wherein the backbone connection is via a wireless link.

16. (Original) The apparatus of claim 15, wherein the wireless link has high latency and high error rate.

17. (Original) The apparatus of claim 15, wherein the wireless link is a satellite link.

18. (Original) The apparatus of claim 1, wherein said apparatus is a component of a network gateway.

19. (Original) The apparatus of claim 1, wherein said apparatus is a component of a host.

20. (Original) The apparatus of claim 1, wherein said apparatus is a component of a hub.

21. (Original) The apparatus of claim 1, wherein said apparatus is a component of a switch.

22. (Original) The apparatus of claim 1, wherein said apparatus is a component of a VSAT.

23. (Original) The apparatus of claim 1, wherein said apparatus is a component of a router.

24. (Currently Amended) A method comprising:
selectively performing transport level spoofing on a transport level connection in accordance with a determination as to what application is using the transport level connection,

wherein the transport level spoofing comprises sending a transport level ACK to spoof receipt of data, and

wherein at least one of the following conditions is satisfied:

(1) in the a case that said selective spoofing step has decided to perform transport level spoofing on the transport level connection, ~~maximum-segment-size~~ a TCP Option, TCP Maximum Segment Size, is set in accordance with the determination as to what application is using the transport level connection;

(2) in the a case that said selective spoofing step has decided to perform transport level spoofing on the transport level connection, a three-way handshake parameter is set in accordance with the determination as to what application is using the transport level connection; and

(3) in the a case that said selective spoofing step has decided to perform transport level spoofing on the transport level connection, connection priority is set in accordance with the determination as to what application is using the transport level connection.

25. (Previously Presented) The method of claim 24, wherein said selective spoofing step only spoofs connections associated with high throughput applications.

26. (Previously Presented) The method of claim 24, wherein said selective spoofing step assigns spoofing resources, including buffer space and control blocks, to the spoofed transport level connection.

27. (Previously Presented) The method of claim 24, wherein said selective spoofing step determines what application is using the transport level connection in accordance with a TCP port number.

28. (Cancelled)

29. (Cancelled)

30. (Cancelled)

31. (Cancelled)

32. (Cancelled)

33. (Cancelled)

34. (Cancelled)

35. (Cancelled)

36. (Previously Presented) The method of claim 24, wherein the transport level connection uses one of the Transmission Control Protocol (TCP) and the User Datagram Protocol (UDP).

37. (Original) The method of claim 24, wherein said method is performed in a network gateway.

38. (Original) The method of claim 24, wherein said method is performed in a host.

39. (Original) The method of claim 24, wherein said method is performed in a hub.

40. (Original) The method of claim 24, wherein said method is performed in a switch.

41. (Original) The method of claim 24, wherein said method is performed in a VSAT.

42. (Original) The method of claim 24, wherein said method is performed in a router.

43. (Currently Amended) An apparatus comprising:
a selective spoofing unit that decides whether or not to perform transport level spoofing on a transport level connection ~~to said apparatus~~ in accordance with at least one field in a packet received by said apparatus,

wherein the transport level spoofing comprises sending a transport level ACK to spoof receipt of data, and

wherein at least one of the following conditions is satisfied:

(1) in ~~the~~ a case that said selective spoofing unit has decided to perform transport level spoofing on the transport level connection, ~~to said apparatus, maximum segment size~~ a TCP Option, TCP Maximum Segment Size, is set in accordance with the at least one field;

(2) in ~~the~~ a case that said selective spoofing unit has decided to perform transport level spoofing on the transport level connection, ~~to said apparatus, a~~ three-way handshake parameter is set in accordance with the at least one field; and

(3) in ~~the~~ a case that said selective spoofing unit has decided to perform transport level spoofing on the transport level connection, ~~to said apparatus, connection~~ priority is set in accordance with the at least one field.

44. (Previously Presented) An apparatus according to Claim 43, wherein the at least one field comprises a destination network level address:

45. (Previously Presented) An apparatus according to Claim 43, wherein the at least one field comprises a source network level address.

46. (Previously Presented) An apparatus according to Claim 43, wherein the at least one field comprises a destination port number.

47. (Previously Presented) An apparatus according to Claim 43, wherein the at least one field comprises a source port number.

48. (Previously Presented) An apparatus according to Claim 43, wherein the at least one field comprises a transport level options field.

49. (Previously Presented) An apparatus according to Claim 43, wherein the at least one field comprises a differentiated services (DS) field.

50. (Previously Presented) An apparatus according to Claim 43, wherein the at least one field comprises a plurality of fields selected from the group consisting a destination IP address, a source IP address, a TCP destination port number, a TCP source port number, a TCP options field, and an IP differentiated services (DS) field.

51. (Previously Presented) An apparatus according to Claim 43, wherein the at least one field comprises an IP address and a TCP port number.

52. (Previously Presented) An apparatus according to Claim 43, wherein the at least one field is a TCP field.

53. (Currently Amended) A method comprising:
selectively performing transport level spoofing on a transport level connection in accordance with at least one field in an IP packet or TCP packet,

wherein the transport level spoofing comprises sending a transport level ACK to spoof receipt of data, and

wherein at least one of the following conditions is satisfied:

(1) in ~~the~~ a case that said selective spoofing step has decided to perform transport level spoofing on the transport level connection, ~~maximum segment size a~~ TCP Option, TCP Maximum Segment Size, is set in accordance with the at least one field;

(2) in ~~the~~ a case that said selective spoofing step has decided to perform transport level spoofing on the transport level connection, a three-way handshake parameter is set in accordance with the at least one field; and

(3) in ~~the~~ a case that said selective spoofing step has decided to perform transport level spoofing on the transport level connection, connection priority is set in accordance with the at least one field.

54. (Currently Amended) A system comprising:

means for obtaining an IP address corresponding to a network connection;

and

~~a maximum segment size setting unit that is configured to set~~ means for setting a TCP Option in a TCP packet ~~TCP maximum segment size~~ in accordance with an the IP address, wherein the TCP Option is TCP Maximum Segment Size.

55. (Currently Amended) A method comprising:

obtaining an IP address corresponding to a network connection; and

setting a TCP Option in a TCP packet ~~TCP maximum segment size~~ in accordance with ~~an~~ the IP address, wherein the TCP Option is TCP Maximum Segment Size.

56. (Currently Amended) A system comprising:
means for obtaining a TCP port number corresponding to a network connection; and
~~a maximum segment size setting unit that is configured to set~~ means for
setting a TCP Option in a TCP packet ~~TCP maximum segment size~~ in accordance with ~~an~~ the TCP port number, wherein the TCP Option is TCP Maximum Segment Size.

57. (Currently Amended) A method comprising:
obtaining a TCP port number corresponding to a network connection; and
setting a TCP Option in a TCP packet ~~TCP maximum segment size~~ in accordance with ~~an~~ the TCP port number, wherein the TCP Option is TCP Maximum Segment Size.